

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L15	8	("4449475"   "4591543"   "4627705"   "4767689"   "4796051"   "4800839"   "4801965"   "4895103").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/12 13:04
L16	1940982	bubble heat boil and 15	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/12 13:05
L17	2	(bubble heat boil) and 15	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/12 13:05
L18	10	("3839071"   "4340896"   "5231454"   "5231455"   "5278615"   "5557376"   "5561448"   "5585900"   "5634170"   "5749032").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/12 13:11
L19	592	347/30.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/12 13:11
L20	483	"pumps" and 19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/12 13:26
L21	2	17 and (bubble heat boil thermal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/12 13:12
L22	430	20 and (bubble heat boil thermal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/12 13:12
L23	399	20 and (bubble)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/12 13:12
L24	98	("4383263").URPN.	USPAT	OR	ON	2007/10/12 13:16
L25	12	"pumps" and 19 and re\$2use	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/12 13:33
L26	0	("5,625,3856,070,9616,578,945").PN.	USPAT	OR	OFF	2007/10/12 13:28
L27	3	((("5,625,385") or ("6,070,961") or ("6,578,945"))).PN.	USPAT	OR	OFF	2007/10/12 13:29
L28	5	"pumps" and 19 and recycle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/12 13:33
L29	27	(US-20040189749-\$ or US-20020130918-\$ or US-20020105565-\$).did. or (US-5221027-\$ or US-5426456-\$ or US-6074037-\$ or US-4771297-\$ or US-5883647-\$ or US-5117244-\$ or US-6481824-\$ or US-5625385-\$ or US-6000792-\$ or US-4345262-\$ or US-7033005-\$ or US-4987429-\$ or US-7048353-\$ or US-5933689-\$ or US-5561448-\$ or US-4383263-\$ or US-5953026-\$ or US-6523931-\$ or US-6578945-\$).did. or (US-2905363-\$ or US-1959959-\$).did. or (JP-57022064-\$ or JP-57022066-\$ or JP-58177369-\$).did.	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2007/10/12 13:35
L30	0	29 and deaerat and filter	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2007/10/12 13:36
L31	1	29 and deaerat\$4 and filter	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2007/10/12 13:36

## EAST Search History

L32	1	29 and deaerat\$4 and filter\$4	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2007/10/12 13:36
L33	1680886	29 and deaerat\$4 or filter\$4	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2007/10/12 13:36
L34	16	29 and (deaerat\$4 or filter\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2007/10/12 13:37
L35	14	34 and color	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2007/10/12 13:37
S1	2	"20040189749"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:02
S2	906	347/29.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 13:39
S3	741	347/30.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:02
S4	163	S2 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:07
S5	8774	((suction vacuum) with ((multiple plural\$3) with tube))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:06
S6	25	S3 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:04
S7	168	((suction vacuum) with tube) same (Individual with nozzle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:07
S8	0	S2 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:07
S9	1	S3 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:07

## EAST Search History

S10	534	(cap with nozzle with alignment)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:08
S11	8	S2 and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 11:08
S12	906	347/29.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:13
S13	0	(cap near4 each near4 nozzle) and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 13:39
S14	0	(cap with each with nozzle) and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 13:40
S15	67237	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 13:39
S16	0	(cap with each with nozzle) and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 13:40
S17	0	(cap same (each with nozzle)) and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 13:40
S18	1	("4173020").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/31 13:46
S19	1	("4173020").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/31 13:47
S20	2	("4539574").URPN.	USPAT	OR	ON	2006/07/31 14:04
S21	9	(nozzle adj cap) with (protrusion)	USPAT	OR	ON	2006/07/31 14:12
S22	20	(cap with equal with nozzle) and S15	USPAT	OR	ON	2006/07/31 14:13
S23	32	(cap with equal with nozzle) and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:35
S24	12	(cap with per with nozzle) and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:37

## EAST Search History

S25	271	(cap with per with nozzle) not S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:38
S26	412	(nozzle adj (cap cover protect\$3)) and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:15
S27	316	S26 not S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:14
S28	96	(nozzle adj (cap cover protect\$3)) and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:17
S29	5115	(nozzle with (cap cover protect\$3)) same (pin protrusion pko\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:18
S30	473	(nozzle adj (cap cover protect\$3)) same (pin protrusion pko\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:18
S31	471	(nozzle adj (cap cover protect\$3)) same (pin protrusion pok\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:19
S32	159	(nozzle adj (cap cover protect\$3)) with (pin protrusion pok\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:21
S33	4	(nozzle adj (cap cover protect\$3)) with (pin protrusion pok\$3) and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:19
S34	159	(nozzle adj (cap cover protect\$3)) with (pin protrusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:30
S35	57	(nozzle adj (cap cover protect\$3)) with (individual)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:32
S36	26945	S15 and "25"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:30

## EAST Search History

S37	2	S15 and S35	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:30
S38	28	(individual adj (cap cover protect\$3)) and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:32
S39	13	(US-20040189749-\$ or US-20020130918-\$).did. or (US-5117244-\$ or US-5221027-\$ or US-6074037-\$ or US-6481824-\$ or US-5426456-\$ or US-5883647-\$ or US-4771297-\$).did. or (US-1959959-\$ or US-2905363-\$).did. or (JP-57022066-\$ or JP-57022064-\$).did.	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2006/07/31 15:40
S40	12	S39 and nozzle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:40
S41	39	(liquid and discharge and cap and equal and nozzle).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:15
S42	2	S41 and canon.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:14
S43	742	347/30.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 09:18
S44	0	(cap with per with color) and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:54
S45	113	(cap with color) and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:54
S46	3	("4952947"   "5018884"   "5086305").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/01 09:13
S47	19	("5625385").URPN.	USPAT	OR	ON	2006/08/01 09:13
S48	0	"takashi suzuki".in. and fuji.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 09:18
S49	0	"takashi suzuki" and fuji.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 09:19

## EAST Search History

S50	111	(takashi with suzuki).in. and fuji.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 09:19
S51	9	(takashi with suzuki).in. and (fuji with xerox).as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 09:20
S52	5	(heat\$3 thermal\$3 eject\$3) and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 09:32
S53	117	(electro with thermal with transducer same boiling) and "347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 09:32
S54	20	("5625385").URPN.	USPAT	OR	ON	2007/02/20 11:21
S55	1	S54 and (recycl\$3 reuse circulat\$3)	USPAT	OR	ON	2007/02/20 11:21
S56	2303	347/85.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 13:59
S57	310	347/36.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 14:00
S58	6	S56 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 13:59
S59	6	("4122458"   "4190844"   "4544930"   "4612553"   "6416918"   "6508542").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/20 13:59
S60	69942	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 14:00
S61	1425	((ink liquid fluid) with (reus\$3 recycl\$3 refurbish\$3)) and S60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 14:01
S62	159	((ink liquid fluid) with (reus\$3 recycl\$3 refurbish\$3)) and S56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 14:02
S63	90	((ink liquid fluid) near2 (reus\$3 recycl\$3 refurbish\$3)) and S56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 14:24

## EAST Search History

S64	736	((ink liquid fluid) near2 (reus\$3 recycl\$3 refurbish\$3)) and S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 14:02
S65	151	((ink liquid fluid) with (reus\$3 recycl\$3 refurbish\$3) same color) and S60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/20 14:24
S66	970	347/29.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 09:17
S67	1	((reus\$3 recycl\$3 refurbish\$3) with color) and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 08:22
S68	2	((reus\$3 recycl\$3 refurbish\$3) same color) and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 08:26
S69	769	347/30.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 08:25
S70	1	((reus\$3 recycl\$3 refurbish\$3) same color) and S67	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 08:26
S71	18	((reus\$3 recycl\$3 refurbish\$3) with (ink liquid fluid)) and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 08:29
S72	1	((reus\$3 recycl\$3 refurbish\$3) with (ink liquid fluid)) and S67	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 08:26
S73	89	((reus\$3 recycl\$3 refurbish\$3) with (ink liquid fluid)) same (cap cover)) and "347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 08:52
S74	17	((reus\$3 recycl\$3 refurbish\$3) with (ink liquid fluid)) same (cap cover)) and "347"/85.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 08:52
S75	1	("6830855").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/21 08:54
S76	12	("4107699"   "5428378"   "6123409"   "6132026"   "6145958"   "6158838"   "6213583"   "6224186"   "6234620"   "6273547"   "6281911"   "6340220").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/21 09:01
S77	0	("7048353").URPN.	USPAT	OR	ON	2007/02/21 09:02

## EAST Search History

S78	535	347/92.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 09:17
S79	31	(filter with remov\$3 with (gas air)) and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 09:23
S80	2	"7048353".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/21 09:23
S81	1	2004-374131.NRAN.	DERWENT	OR	ON	2007/02/21 09:23